

Table 2. Model parameters of light response curves before and after each typhoon landfall during 2009 and 2012. α is the ecosystem quantum yield, GEP_{2000} indicates the gross ecosystem productivity when photosynthetically active radiation reach 2000 $\mu\text{mol m}^{-2} \text{s}^{-1}$, R_d represents ecosystem respiration, P represents significant difference in model parameters comparing before and after typhoon.

Typhoon		α	P	GEP_{2000}	P	R_d	P
		($\mu\text{mol CO}_2 (\mu\text{mol PAR}^{-1})$)		($\mu\text{mol CO}_2 \text{ m}^{-2} \text{ s}^{-1}$)		($\mu\text{mol CO}_2 \text{ m}^{-2} \text{ s}^{-1}$)	
W23-Parma	Before	0.03±0.01	0.538	21.46±3.15	0.085	2.53±1.06	0.462
	After	0.02±0.01		17.86±2.61		1.92±1.42	
W23-Babj	Before	0.03±0.03	0.988	22.57±4.16	0.035	3.43±1.92	0.775
	After	0.03±0.01		30.74±5.92		3.80±1.96	
W28-Nockten	Before	0.03±0.01	0.884	17.65±2.09	0.654	4.50±1.42	0.218
	After	0.03±0.02		17.08±1.76		2.70±2.65	
W35-Molave	Before	0.04±0.02	0.182	15.42±1.08	0.651	4.91±2.02	0.363
	After	0.02±0.01		16.07±2.90		3.97±0.85	
W35-Lio-Fan	Before	0.03±0.02	0.613	25.38±2.09	0.434	5.64±3.11	0.294
	After	0.03±0.02		24.34±1.93		3.58±2.68	
W38-Megi	Before	0.03±0.01	0.079	28.18±1.42	< 0.001	3.43±1.19	0.009
	After	0.02±0.01		20.85±1.43		1.46±0.47	

Table 4. Mean annual net ecosystem CO₂ exchange (NEE), gross ecosystem production (GEP), ecosystem respiration (RE) for Yunxiao (YX) and Gaoqiao (GQ) during 2009 and 2012.

Year	NEE (g C m ⁻² yr ⁻¹)	GEP (g C m ⁻² yr ⁻¹)	RE (g C m ⁻² yr ⁻¹)
YX site			
2009	-539.98	1762.55	1238.46
2010	-588.051	1875.07	1336.70
2011	-751.10	1928.32	1296.84
2012	-856.80	1919.33	1275.91
GQ site			
2009	N. A.	N. A.	N. A.
2010	-737.74	1889.72	1214.82
2011	-691.86	1698.19	1026.89
2012	-735.34	1703.14	1045.25